IN THE CLAIMS

The status of the claims as presently amended is as follows:

- 1. (Canceled)
- 2. (Currently Amended) An auger type ice making machine according to claim [[1]] 7, wherein the pressure regulating means comprises a constant pressure expansion valve which is interposed between the condenser and the evaporator, and whose opening is controlled and changed in response to the refrigerant pressure on a downstream side of the interposed position.
- 3. (Withdrawn Currently Amended) An auger type ice making machine according to claim [[1]] 7, wherein the pressure regulating means comprises:

a variable control valve being interposed between the condenser and the evaporator; the opening of the variable control valve being electrically controlled and changed;

a pressure sensor for sensing refrigerant pressure at an inlet of the evaporator; and

opening controlling means for controlling the opening of the variable control valve in response to the refrigerant pressure sensed by the pressure sensor and thereby keeping the pressure of refrigerant to be supplied to the evaporator at a specified low pressure.

4. (Withdrawn – Currently Amended) An auger type ice making machine according to claim [[1]] 7, wherein the pressure regulating means comprises:

a variable control valve being interposed between the condenser and the evaporator; the opening of the variable control valve being electrically controlled and changed;

an inlet temperature sensor for sensing refrigerant temperature at an inlet of the evaporator; and

opening controlling means for controlling the opening of the variable control valve in response to the refrigerant temperature sensed by the inlet temperature sensor and thereby keeping the pressure of refrigerant to be supplied to the evaporator at a specified low pressure.

5. (Currently Amended) An auger type ice making machine according to claim [[1]] 7, wherein

the freezing cylinder is placed vertically along the axis thereof, receives water for making ice at a lower part thereof and discharges scrapped ice from an upper part thereof;

the evaporator is provided on the outer peripheral surface of the freezing cylinder, ranging from the upper part to the lower part of the freezing cylinder; and

the inlet of the evaporator into which refrigerant flows is placed at the upper part of the freezing cylinder.

6. (Canceled)

7. (Previously Presented) An auger type ice making machine provided with a freezing cylinder which has an evaporator on its outer peripheral surface and into which water used for making ice is supplied, an ice-scraping auger for scraping ice formed on an inner surface of the freezing cylinder, an auger motor for driving the ice-scraping auger, a freezing apparatus which includes a compressor, a condenser and the evaporator and circulates refrigerant discharged from the compressor through the condenser and the evaporator to cool the freezing cylinder, and a motor which drives the compressor, the auger type ice making machine comprising:

pressure regulating means for keeping the pressure of refrigerant to be supplied to the evaporator at a specified low pressure;

an outlet temperature sensor for sensing refrigerant temperature at an outlet of the evaporator;

motor controlling means for controlling the rotational speed of the motor that drives the compressor in response to the refrigerant temperature at the outlet of the evaporator sensed by the outlet temperature sensor and thereby performing feedback control such that the refrigerant temperature at the outlet of the evaporator is kept at a

specified refrigerant outlet temperature, resulting in the degree of superheat of refrigerant in the evaporator being kept at a predetermined constant value;

a water temperature sensor for sensing temperature of water to be supplied to the freezing cylinder; and

refrigerant outlet temperature change controlling means for decreasing the specified refrigerant outlet temperature as the sensed water temperature rises.

8. (Previously Presented) An auger type ice making machine provided with a freezing cylinder which has an evaporator on its outer peripheral surface and into which water used for making ice is supplied, an ice-scraping auger for scraping ice formed on an inner surface of the freezing cylinder, an auger motor for driving the ice-scraping auger, a freezing apparatus which includes a compressor, a condenser and the evaporator and circulates refrigerant discharged from the compressor through the condenser and the evaporator to cool the freezing cylinder, and a motor which drives the compressor, the auger type ice making machine comprising:

pressure regulating means for keeping the pressure of refrigerant to be supplied to the evaporator at a specified low pressure;

an outlet temperature sensor for sensing refrigerant temperature at an outlet of the evaporator;

motor controlling means for controlling the rotational speed of the motor that drives the compressor in response to the refrigerant temperature at the outlet of the evaporator sensed by the outlet temperature sensor and thereby performing feedback control such that the refrigerant temperature at the outlet of the evaporator is kept at a specified refrigerant outlet temperature, resulting in the degree of superheat of refrigerant in the evaporator being kept at a predetermined constant value;

a current sensor for sensing current flowing into the auger motor; and refrigerant outlet temperature change controlling means for increasing the specified refrigerant outlet temperature as the sensed current increases.

9. (Previously Presented) An auger type ice making machine provided with a freezing cylinder which has an evaporator on its outer peripheral surface and into which water used for making ice is supplied, an ice-scraping auger for scraping ice formed on an inner surface of the freezing cylinder, an auger motor for driving the ice-

scraping auger, a freezing apparatus which includes a compressor, a condenser and the evaporator and circulates refrigerant discharged from the compressor through the condenser and the evaporator to cool the freezing cylinder, and a motor which drives the compressor, the auger type ice making machine comprising:

pressure regulating means for keeping the pressure of refrigerant to be supplied to the evaporator at a specified low pressure;

an outlet temperature sensor for sensing refrigerant temperature at an outlet of the evaporator;

motor controlling means for controlling the rotational speed of the motor that drives the compressor in response to the refrigerant temperature at the outlet of the evaporator sensed by the outlet temperature sensor and thereby performing feedback control such that the refrigerant temperature at the outlet of the evaporator is kept at a specified refrigerant outlet temperature, resulting in the degree of superheat of refrigerant in the evaporator being kept at a predetermined constant value;

a torque sensor for sensing torque transmitted from the auger motor to the icescraping auger; and

refrigerant outlet temperature change controlling means for increasing the specified refrigerant outlet temperature as the sensed torque increases.

10. (Previously Presented) An auger type ice making machine provided with a freezing cylinder which has an evaporator on its outer peripheral surface and into which water used for making ice is supplied, an ice-scraping auger for scraping ice formed on an inner surface of the freezing cylinder, an auger motor for driving the ice-scraping auger, a freezing apparatus which includes a compressor, a condenser and the evaporator and circulates refrigerant discharged from the compressor through the condenser and the evaporator to cool the freezing cylinder, and a motor which drives the compressor, the auger type ice making machine comprising:

pressure regulating means for keeping the pressure of refrigerant to be supplied to the evaporator at a specified low pressure;

an outlet temperature sensor for sensing refrigerant temperature at an outlet of the evaporator;

motor controlling means for controlling the rotational speed of the motor that drives the compressor in response to the refrigerant temperature at the outlet of the

evaporator sensed by the outlet temperature sensor and thereby performing feedback control such that the refrigerant temperature at the outlet of the evaporator is kept at a specified refrigerant outlet temperature, resulting in the degree of superheat of refrigerant in the evaporator being kept at a predetermined constant value;

a distortion sensor for sensing distorted amount of the freezing cylinder; and refrigerant outlet temperature change controlling means for increasing the specified refrigerant outlet temperature as the sensed distorted amount increases.

11. - 29. (Canceled)

- 30. (New) An auger type ice making machine according to claim 8, wherein the pressure regulating means comprises a constant pressure expansion valve which is interposed between the condenser and the evaporator, and whose opening is controlled and changed in response to the refrigerant pressure on a downstream side of the interposed position.
- 31. (New) An auger type ice making machine according to claim 8, wherein the pressure regulating means comprises:

a variable control valve being interposed between the condenser and the evaporator; the opening of the variable control valve being electrically controlled and changed;

a pressure sensor for sensing refrigerant pressure at an inlet of the evaporator; and

opening controlling means for controlling the opening of the variable control valve in response to the refrigerant pressure sensed by the pressure sensor and thereby keeping the pressure of refrigerant to be supplied to the evaporator at a specified low pressure.

32. (New) An auger type ice making machine according to claim 8, wherein the pressure regulating means comprises:

a variable control valve being interposed between the condenser and the evaporator; the opening of the variable control valve being electrically controlled and changed;

an inlet temperature sensor for sensing refrigerant temperature at an inlet of the evaporator; and

opening controlling means for controlling the opening of the variable control valve in response to the refrigerant temperature sensed by the inlet temperature sensor and thereby keeping the pressure of refrigerant to be supplied to the evaporator at a specified low pressure.

33. (New) An auger type ice making machine according to claim 8, wherein the freezing cylinder is placed vertically along the axis thereof, receives water for making ice at a lower part thereof and discharges scrapped ice from an upper part thereof:

the evaporator is provided on the outer peripheral surface of the freezing cylinder, ranging from the upper part to the lower part of the freezing cylinder; and the inlet of the evaporator into which refrigerant flows is placed at the upper part of the freezing cylinder.

- 34. (New) An auger type ice making machine according to claim 9, wherein the pressure regulating means comprises a constant pressure expansion valve which is interposed between the condenser and the evaporator, and whose opening is controlled and changed in response to the refrigerant pressure on a downstream side of the interposed position.
- 35. (New) An auger type ice making machine according to claim 9, wherein the pressure regulating means comprises:

a variable control valve being interposed between the condenser and the evaporator; the opening of the variable control valve being electrically controlled and changed;

a pressure sensor for sensing refrigerant pressure at an inlet of the evaporator; and

opening controlling means for controlling the opening of the variable control valve in response to the refrigerant pressure sensed by the pressure sensor and thereby keeping the pressure of refrigerant to be supplied to the evaporator at a specified low pressure.

36. (New) An auger type ice making machine according to claim 9, wherein the pressure regulating means comprises:

a variable control valve being interposed between the condenser and the evaporator; the opening of the variable control valve being electrically controlled and changed;

an inlet temperature sensor for sensing refrigerant temperature at an inlet of the evaporator; and

opening controlling means for controlling the opening of the variable control valve in response to the refrigerant temperature sensed by the inlet temperature sensor and thereby keeping the pressure of refrigerant to be supplied to the evaporator at a specified low pressure.

37. (New) An auger type ice making machine according to claim 9, wherein the freezing cylinder is placed vertically along the axis thereof, receives water for making ice at a lower part thereof and discharges scrapped ice from an upper part thereof:

the evaporator is provided on the outer peripheral surface of the freezing cylinder, ranging from the upper part to the lower part of the freezing cylinder; and the inlet of the evaporator into which refrigerant flows is placed at the upper part of the freezing cylinder.

- 38. (New) An auger type ice making machine according to claim 10, wherein the pressure regulating means comprises a constant pressure expansion valve which is interposed between the condenser and the evaporator, and whose opening is controlled and changed in response to the refrigerant pressure on a downstream side of the interposed position.
- 39. (New) An auger type ice making machine according to claim 10, wherein the pressure regulating means comprises:

a variable control valve being interposed between the condenser and the evaporator; the opening of the variable control valve being electrically controlled and changed;

a pressure sensor for sensing refrigerant pressure at an inlet of the evaporator; and

opening controlling means for controlling the opening of the variable control valve in response to the refrigerant pressure sensed by the pressure sensor and thereby keeping the pressure of refrigerant to be supplied to the evaporator at a specified low pressure.

40. (New) An auger type ice making machine according to claim 10, wherein the pressure regulating means comprises:

a variable control valve being interposed between the condenser and the evaporator; the opening of the variable control valve being electrically controlled and changed;

an inlet temperature sensor for sensing refrigerant temperature at an inlet of the evaporator; and

opening controlling means for controlling the opening of the variable control valve in response to the refrigerant temperature sensed by the inlet temperature sensor and thereby keeping the pressure of refrigerant to be supplied to the evaporator at a specified low pressure.

41. (New) An auger type ice making machine according to claim 10, wherein the freezing cylinder is placed vertically along the axis thereof, receives water for making ice at a lower part thereof and discharges scrapped ice from an upper part thereof;

the evaporator is provided on the outer peripheral surface of the freezing cylinder, ranging from the upper part to the lower part of the freezing cylinder; and

the inlet of the evaporator into which refrigerant flows is placed at the upper part of the freezing cylinder.